ZUBIHA, E.M.; SPIRIDONOVA, N.P.

Biological characteristics of popular medical means applied in White Russia in protozoic diseases. Zdrav.Belcr. 5 no.8:53-57 Ag '59. (HIRA 12:10)

1. Iz kafedry obshchey biologii Vitebskogo meditsinskogo instituta (zaveduyushchaya kafedroy E.M.Zubina).
(WHITE RUSSIA--MEDICINE, POPULAR)

Zubina, E. H.

Caud Biolog. Sci

Dissertation: "Studying the Biological Activity of Syes by Their Action on Paramecium."

17 October 49

First Moscow Order of Lenin Medical Inst

SO Vecheryaya Moskva Sum 71

KORZHUYEV, P.A.; AKATOVA, H.H.; ZUBIHA, H.P.

Some morphological and physiological characteristics of amphibians in ontegenesis Lwith summery in Englishj. Zool. zhur. 38 no.4:579-588 Ap '59. (MIRA 12:5)

1. Institute of Animal Morphology, Academy of Sciences of the U.S.S.R., Moscow.

(Amphibia)

ZUDIYZUOVA, N.P., hezd. tozum. nosk; MATAV, V. Yo., hokh.

Direct of the effectionment of all partification on the Aeros provided to a Miles, engines Trant. I see The amovement of it gas D 164 (Miles 18:4)

1. Greathers to many logic many months who have self-by the benefit inclinate

APPROVED FOR RELEASE: Thursday, September 26, 2002

USSR/Geophysics - Erosion

ZUBIYEMYAN, T.A.

"Control of Soil Erosion in the Armenian Mittin" [Cand of Agr Scil P. A. Zuhiyemyan,]

Inst of Viniculture and Viticulture, Armenian SiR

Priroda No 4, pp 107-168

Proposes use of Mergin system in laying foundations of terraces in subject and the foundation of terraces

ZUBITSKII,P.

Prochaye avarage mosty - zhelezaym dorogan. Colid, welded bridges for railroads 7. (Zhel-dor. transport, 1948, no. 10, p. 73-81, diagra.)

DIC: HE7.A5

SO: SOVIET TRANSPORTATION AND COMPUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

ZUBIYETOV, I.P., inzh.; AKOPYAN, S.I., kand, tekhn. nauk, čtv. red.; GOSTEV, zam. otv. red.; VASIL'YEV, A.V., kand. tekhn. nauk, red.; KRISTI, M.K., prof. red.; L'YOV, Ye.D., prof., red.; MALASHKIN, W.K., kand. tekhn. nauk, red.; YUDUSHKIN, N.G., inzh., red.; UVAROVA, A.F., tekhn. red.

[Standardizing fuel pump plungers used in the D-35 and D-54 tractor diesel engines] Unifikatsiia plunsherov toplivnykh nasosov dlia traktornykh dizelei D-35 i D-54. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroitel'noi lit-ry 1956. 14 p. (Moscov. Gosudarstvennyi soiuznyi nauchno-issledovatel'skii traktornyi institut. [Trudy] no.15). (MERA 10:9)

1. Direktor nauchno-issledovatel'skogo avtotraktornogo instituta (for Akopyan). 2. Zamestitel' direktora po nauchnoy rabote nauchno-issledovatel'akogo avtotraktornogo instituta (for Gostev).

(Tractors—Engines)

AUTHOR:

Zubiyetov, I.P.

113-58-7-3/25

TITLE:

The Characteristics of the Fuel Supply by Pumps with a Distributor (Osobennosti podachi topliva nasosami s raspredelitelem)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 7, pp 6-8 (USSR)

ABSTRACT:

In its development of the ON-2 fuel feed pump with a distributor, NATI has changed the scheme of the high pressure line by changing over the delivery valve from the cavity above the plunger pair to the distributor (Fig. 2b). The amount of fuel over the valve in the distributor has been reduced to a minimum. Further design changes of the ONM pump devised by NATI-WZTA (Fig. 5) (as compared with the single-plunger BKB fuel pump designed by the Kotlyarenko brothers and G.B. Bertulli (Fig. 4)) provide a complete removal of the remaining pressure of both line sectors of high pressure. This was found to be the most effective arrangement. There are 2 graphs, 4 diagrams, 1 oscillogram and 1 Soviet reference.

ASSOCIATION: NATI (NATI)

1. Fuel pumps--Design 2. Fuel pumps--Performance

Card 1/1

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CTA-RDP86-00513R002065520015-5"

113-58-3-14/16

TITLE:

AUTHOR:

Zubiyetov, I.P.

Regulator of the Fuel Pump American Bosch

(Regy-

lyator toplivnogo nasosa Ameriken Bosh)

PERIODICAL:

Avtomobil'naya Promyahlannoati, 1958, Nr 3, pp 43-44 (USSR)

ABSTRACT:

The mechanical fuel pumps for diesel engines have the following drawbacks: the great stress on the foot lover causes driver fatigue; during work at high speed ranges, the degree of irregularity is increased sharply. Measures were tried to avoid these drawbacks. The stress on the foot lever is reduced by indirect action on the spring of the regulator. The irregularity in the work at high speeds, is reduced by a combination of springs. In Soviet engine manufacturing, such a system is used in the fuel pump of the engine 4Ch 4.5 and the same device is used in the fuel pumps of "American Bosch", Figure 2 shows the position of the spring in correspondence to the regulator lever. The tests of the fuel pump of the American Bosch show that irregularity, even at a considerable change of speed is slight. According to the author, the pump has the drawback that the elements of regulation and the spring may be damaged during operation.

AVAILABLE: Card 1/1

Library of Congress

1. Fuel pumps-Design

2. Diesel engines-Equipment

-ZUBIYETOV, I.P.

Characteristics of fuel feed by pumps having distributors, Avt. prom. no. 7:6-8 Jl 150. (Hika ILIB)

1. Nauchno-issledovatel skiy avtotraktornyy institut.
(Automobiles--Fuel systems)

AUTHOR:

Zubiyetov, I.P. and Andreyova, Ye.N.

113-58-6-9/16

TITLE:

Research on Distribution Type Fuel Pumps (Issledovaniye topliv-nykh nasosov raspredelitel'nogo tipa)

PERIODICAL:

Avtomobil'naya promyshlennost', 1958, Nr 6, pp 26-29 (USSR)

ABSTRACT:

The authors describe in detail the distribution type PSA and PSB fuel pumps, constructed by the US firm of American Bosch. The NATI laboratory made an extensive research on two of such pumps; PSB-4A for 4 cylinders and PSB-6A for six cylinders engines. Conclusions made in regard to their dimensions and weight show that these pumps are not as good as other known foreign distribution type pumps.

bution type pumps. There are 7 graphs, 3 diagrams, 1 table and 4 non-Soviet

references.

ASSOCIATION:

(NATI)

Card 1/1

1. Fuel pumps--Research and Development

ZUBIYETOV, 1. P.; AMDREYEVA, Yo. N.

Investigating fuel distribution pumps, Avt. prom. no. 6:26-29
Je 158. (HIRA 11:7)

1. Hauchno-issledovstel'skiy sytotraktornyy institut. (Fuel pumps)

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APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5

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hyaluating the functions of funl feed control. Avt.i trakt. recr. no.6:21-22 Je 157. (11.0.10:8)

1. Hauchno-issledovatel'ably autotraktornyv institut. (Tractors--Fuel systems)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBIYETOV P.I. promyshlenno-sanitarnyy vrach (st. Melitopol', Stalinskaya doroga).

Changing the exhaust system of gasoline-powered rail cars.

Elek. i tepl. tiaga no.2:35 F 157. (MLRA 10:5)

(Railroad motorcars)

ZUBIYETOV, P.P., propodavatel

[Radio receivers: assignments for written examinations for students of radio engineering departments] Radioprishays ustroistva; sadaniia na kontrel'nye raboty dlia uchashchikhsia radiootdeleniia. Spetsial'nost' "Radioveshchenie." Hoskva. 1958. 10 p. (MIRA 12:3)

1. Moscow. Vseseyuznyy zacchnyy tekhnikum svyagi. 2. Vseseyuznyy zacchnyy tekhnikum svyazi (for Zubiyetov).

(Radie--Receivers and reception)

ZUBIYETOV, P.P., prepodavatel

[Radio receivers and stations; assignments for written examinations and course projects for students of radio engineering departments] Radiopriemnye ustroistva i stantsii; zadaniis na kontrol'nye raboty i kursovoi proekt dlia uchashchikhsis radiootdeleniis. Spetsial'-nost' - "Radiosvias". " Keskva, 1958. 25 p. (MIRA 12:3)

1. Mescow. Vsesoyuznyy zaochnyy tekhnikum svyssi. 2. Vsesoyusnyy zaochnyy tekhnikum svyszi (for Zubiyetov).

(Radio---Receivers and reception)

VELICHKIN, I.I., kand. tekhn. nauk; NISNEVICH, A.I., kand. tekhn. nauk; ZUBIYETOVA, M.P., kand. tekhn. nauk; ZHEMNOVEKIY, N.S., doktor tekhn. nauk; retsenzent; SAVKIN, I.F., inzh. red.

[Rapid wear tests of diesel engines] Uskoremnye ispytaniia dizel'nykh dvigatelei na iznosostoikost'. Moskva, 1zd-vo "Mashinostroenie," 1964. 182 p. (MIRA 17:7)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5*

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5*

***INITION PA tannidat sel'skokhozyaystvennykh nauk:

***Solls of the Azerbaijan S.S.R.** Reviewed by P.A. Zabietian. Izv.

AN Arm. SSR. Biol.i sel'khoz.nauki 7 no.2:109-112 '5%, (MLRA 9:8)

(Azerbaijan--Solls)

Soils - Soviet Armenia

Soils of Armenia. Nauka i zhizn' 19, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress July 1952. UNCLASSIFIED.

Soils--Armenia

Using gravelly cemented soils for vineyards in Armenia. Vin. SSSR 12, No. 8, 1952

Monthly List of Russian Accessions, Library of Congress, December, 1952 Unclassified

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UDSR (600)

Armenia - Erosion

Fight against soil erosion in the hills of Armenia. Priroth 42, No. 4, 1953.

Monthly List of Russian Accessions, Library of Congress, April 1953, Unclassified.

ZUBIYETYAN, V.G.

Determining the economic effectiveness of mineral fertilizers given to wheat on the Nets Massa Collective Farm in Basanguchas District. Iss. AN Arm. SSR. Hicl.i col'khom. nauki 9 no. 6191-99 Je 146. (MERA 919) (Armenia--Wheat) (Pertilizers and manures)

USSR/Cultivated Plants - Grains

М

Abs Jour

: Ref Zhur Diol., No 12, 1958, 53543

Author

Zubiyetyan, V.G.

Inst

: AS Armenian SSR

Title

: An Experiment in the Determination of the Economic Effectiveness of Mineral Fertilizers Applied under

Wheat in the Village of Mets Mazra of the Basargecharskiy

Rayon (in the Form of a Discussion)

Orig Pub

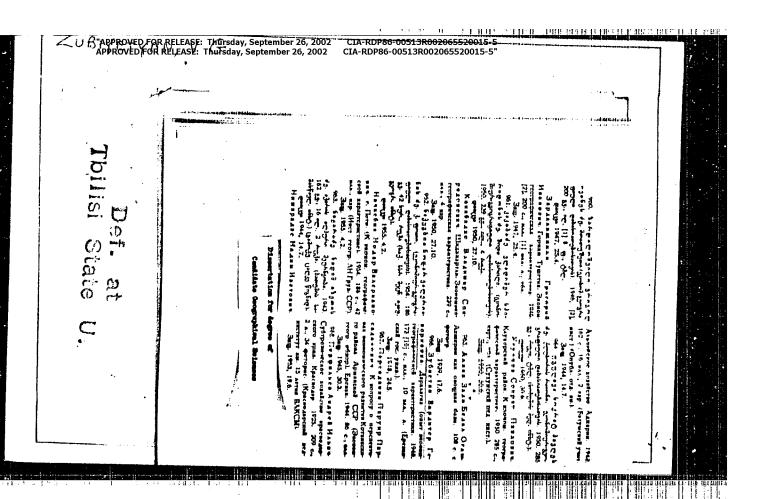
: Izv. AN ArmSSR, Diol. i s.-kh. n., 1956, 9, No 6, 91-99

Abstract

Experiments conducted in 1951-1953 established the economic effectiveness of the application of mineral fertilizers under wheter and spring wheat after all preceding crops. Increase in the yield exceeds by 5-6 times the

expense connected with fertilizing.

Card 1/1



THE RESIDENCE OF THE PROPERTY OF THE PROPERTY

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKEVICH, G.I.

Effect of aqueous extracts from weed seeds on the growth of rape seedlings. Bot.; issl.Bel.etd.VBO no.7:7.7-52 165. (MIRA 18:12)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00513R00206520015-5 CIA-RDP86-00518-5 CIA-RDP86-00518-5 CIA-RDP86-00518-5 CIA-RDP86-00518-5 CIA-RDP86-00518-5 CIA-RDP86-00518-5 CIA-RDP86-00518

ZUBKIN, A.

How to conduct courses on the study of toxic chemical agents.

Voen.snan. 32 no.2:26 F '56. (MLSA 9:5)

(Chemical Warfare)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5
CIA-RDP86-00513R002065520015-5

MAL'SHINSKIY, Arkadiy Arkad'yevich CIA-RDP86-00513R002065520015-5

redaktor; BLAZHENKOVA, G.I., tekhnicheskiy redaktor

[Chemical weapons of foreign armies and defense against chemical warfare] Khimicheskoe oruzhie inostrannykh armii i protivokhimicheskaia sashchita. Moskva, Ied-vo DOSAAF, 1957. 93 p. (MIRA 10:8) (Chemical warfare)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

LEBEDEVA, Yulia Aleksandrovna; ZUBKIH, Aleksandr Stepanovich; KANEVSKAYA, M.D., redaktor; KARYARTHA, W.S., telkinicheskiy redaktor.

[What one should know about poisonous and radioactive substances]
Shto nado znat' ob otravliaiushchikh i radioaktivnykh veshchestvakh.

(Chemical varfare) (Radioactivity)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065520015-5"

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Means and methods of decontamination. Voem.snam. 31 no.8:24 Ag '56.
(Decontamination (from gases, chemicals, etc.))

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MEDVEDEV, Valentin Alekseyevich; YEFREMOVA, Te.V., red.; ZURKIN, A.S., red.; BIAZHERKOVA, G.I., tekhn. red.

[Rules of conduct in contaminated areas] Fravila povedeniia v zarazhennom raione. Moskva, Izd-vo DOSAAF, 1958. 47 p. (MIRA 11:7) (Air defenses)

PHASE I BOOK EXPLOITATION 714

Zubkin, Aleksandr Stepanovich

Individual'nyye sredstva protivokhimicheskoy zashchity (Chemical Defense for Individuals) Moscow, Izd-vo DOSAAF, 1958. 63 p. 130,000 copies printed.

Ed.: Filimonov, I.M.; Tech. Ed.: Tsigel'man, I.T.

PURPOSE: The book is intended for the general public and as a textbook for studies in DOSAAF circles on problems of defense against modern chemical and bacteriological warfare (including radioactive fallout).

COVERAGE: The book deals with purpose, design, and operation of devices for protecting individuals against injury in chemical warfare. No personalities are mentioned. No references are given.

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Chemical Defense for Individuals 714	
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Chemical Defense for Individuals 714

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AVAILABLE: Library of Congress

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Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5

ZUBKIN, A.

Chemical weapens. Voen. Enan. 35 ne.2:28 F '59.

(Chemical warfare)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKIN, Aleksandr Stepanovich; KANEVSKAYA, M.D., red.; MUKHINA, Ye.S., tekhn.red.

[What decontamination and degassing is] Chto takee demaktivatsiis i degazatsiis. Moskva, Izd-vo DOSAAF, 1960. 55 p.
(Civilian defenses) (MIRA 13:7)

ZUBKIN, Aleksandr Stepanovich; HEDVEDEV, Valentin Aleksepevich; KANEVSKAIA, H.D., red.; KOROLEV, A.V., tekhn. red.

[Radioactive cloud and protection against it] Hadioaktivnce oblake i zashchita ot nego. Moskva, Izd-vo DOSAAF, 1961. 65 p. (MERA 14:8)

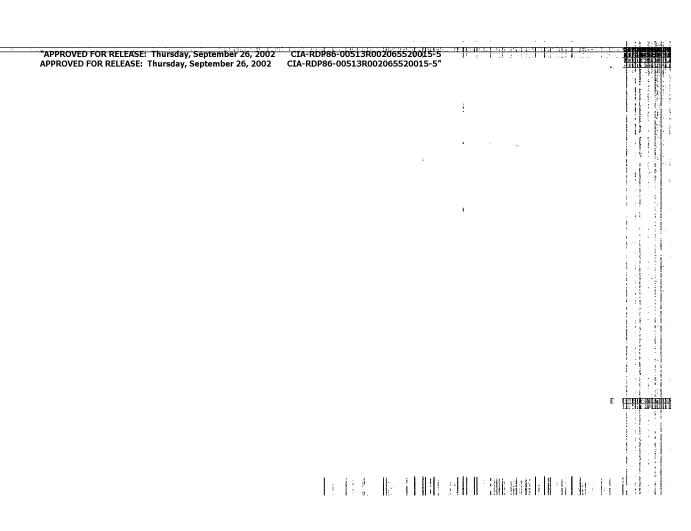
(Radioactive fallout)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5" CIA-RDP86-00513R002065520015-5"

ZUBKIN, Aleksandr Stapenovich; MEDVEDEV, Valentin Aleksayevich; BURNAZYAN, A.I.; ALYAB'YEV, A.F., red.; VLASOVIL, N.A., tekhn. red.

[What is radioactive contamination and ways to protect against it] Chto takee radioaktivnee zarazhenia i apuseby zashehity et nego. Moskva, Gesatomizdat, 1963. 52 p. (MIRA 17:1)

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PHASE I BOOK EXPLOITATION

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- Bogolyubskiy, G. N., I. I. Burlinov, L. V. Vinogradov, V. V. Voznesenskiy, V. S. Danilyuk, A. S. Zubkin, A. S. Il'yashev, M. D. Korablev, Yu. A. Lebedeva, Yu. K. Makarov, I. P. Miroshnikov, I. P. Novichenko, A. V. Popov, and V. A. Serebryakov
- Zashchita naseleniya ot sovremennykh sredstv porazheniya; uchebnoye posobiye dlya organizatsii DOSAAF (Protection of the Population From Modern Means of Destruction; Handbook for DOSAAF Organizations) 2d ed., rev. and enl. Moscow, DOSAAF, 1963. 254 p. 450,000 copies printed.
- Sponsoring Agency: Vsesoyuznoye ordena krasnogo znameni Dobrovol'noye obshchestvo sodeystviya armii, avlatsii i floty.
- Eds. (Title page): I. S. Varennikov and L. V. Vinogradov; Compilers: M. D. Korablev and Yu. A. Lebedeva; Ed.: F. Ye. Godiner; Tech. Ed.: M. Z. Sorkin.

Card 1/8

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5"

BABKIN, I.A.; BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VOZNESHNSKIY, V.V.;

DANILTUK, V.S.; ZAPOL'SKIY, G.H.; ZUBKIN, A.S.; IL'YASSET, A.S.;

KIPRIYAN, K.M.; KONURAT'YEV, P.V.; KORABLEY, M.D.; LHEELEEYA,

YU.A.; MAKAROV, YU.K.; MIROSHNIKOV, I.P.; MOVICHENKO, I.P.;

POPOV, A.V.; SEREBRYAHOV, V.A.; KANEVSKAYA, M.D., red.; ANDRIANOV,
B.I., tekhn.red.

[Protecting the public from present-day means of destruction; a textbook for organizations of the All-Union Voluntary Society for the Promotion of the Army, Aviation, and Navy] Eashchita naseleniia ot sovremennykh sredstv porazheniia; uchebnoe posobie dlia organizatsii Vsesoyuznogo dobrovol'nogo obshchestva sodeystviya armii, aviatsii i flotu. Moskva, Izd-vo DOSAAF, 1958. 334 p. (MIHA 12/4) (Civil defense)

<u>्र र के भव राजामार का मिन्नियों समित्र का मिन्नियों के सिन्नियों का मिन्नियों के सिन्नियों है सिन्नियों के सिन</u>

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKIN, A., inzh. podpolkovnik.

Locating the centers of contamination. Voen.amen. 34 no.4:34 Ap (53. (Givilian defense) (MIRA 11:4)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065520015-5
CIA-RDP86-00513R002065520015-5

ZUBKIN, A.

Radiation and chamical detection. Voen. znan. 37 no. 1/31-32
Ja '61. (MXHA 14:1)
(Radioactivity--Measurement) (Chemical warfare)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

BOGOLYUBSKIY, G.N.; BURLINOV, I.I.; VINOGRADOV, L.V.; VOZNESENSKIY, V.V.; DANILYUK, V.S.; ZUBKIN, A.S.; IL'YAGHEV, A.S.; HORABLEV, M.D.; LEHEDEVA, Yu.A.; MAKAROV, Yu.K.; MINOSHVIKOV, I.P.; NOVICHENKO, I.P.; POPOV, A.V.; SEREBRAKOV, V.A.; VARENNIKOV, I.S., red.; GODINER, F.Ye., red.; SORKIN, M.Z., tokho. red.

[Protecting the population from present-day means of destruction] Zashchita naseleniia ot sovremennykh sredstv porazheniia; uchebnoe posobie dlia organizatsii DOSAAF. Pod obshchei red. I.S. Varennikova i L.V. Vinogradova. Nad. 2., perer. i dop. Moskva, Izd-vo DOSAAF, 1962. 254 p. (HIRA 16:4)

(Civil defense)

The state of the s

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKIN, A.Ya.

[Peultry house for 500 hens of lightweight breeds; clay-filled wattle walls. Plan no.0506-B] Ptichnik na 500 kur legkikh pered; steny glinepletnevye. Proekt no.0506-B. Hoskva, 1955. 9 p., 4 plans. (MIRA 9:6)

1.Russia (1923- U.S.S.R.) Ministerstve goredskoge i sel'skege stroitel'stva.

(Poultry houses and equipment)

ZUBKIN, A.Ya., arkhitektor; ZYKOV, A.H., redaktor

[Houses for fattening 150 swine; walls of logs] Swinarnik-otkormochnik na 150 golov; steny rublenye. Tipovoi proekt Ho.Q231. Moskva. 1956.
16 p. 14 plans. (MIRA 9:12)

1. Russia (1923- U.S.S.R.) Ministerstvo gorodskogo 1 sel'skogo stroitel'stva.

(Swine houses and equipment)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

CIA-RD986-00513R002065520015-5

ZUBKIN, A.Ye.

[Sheep house for 800 head; adobe walls. Plan no.0322] Ovcharnata na 800 golev; steny samannye. Procht no.0322. Muskva, 1955 10p. Pplans (MIRA 9:6)

1. Russia (1923- U.S.S.R.) Ministerstve geredskoge i sel'skege streitel'stva.

(Sheep houses and equipment)

THE REPORT OF THE PROPERTY OF "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5"

ZUBKIN, A. A.

Stebles for horses Moskva, Gos. izd-vo selkhoz. lit-ry, 1951. 78 p. (V pomoshch' sel'skomu stroteliu)

ारक - के क्यों मेरे करी किसी र सिराम भारत पर किसी कराव असर के संख्या है कि

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5" CIA-RDP86-00513R002065520015-5"

CIA-RDP86-00513R002065520015-5

ZUBKIN, A.Ya., arkhitekter.

[Sheep house for 800 head; adobe walls with stone columns. Plan ne.0321] Ovcharnia na 800 golov; steny samannye v kamennykh stelbakh. Prockt no.0321. Hoskva, 1955. 9 p., 7 plans. (MLRA 9:6)

1.Russia (1923- U.S.S.R.) Ministerstvo goredskugo i mel'skogo stroitel'stva.

(Sheep houses and equipment)

CIA-RDP86-00513R002065520015-5"

ZUBKIN, A.Ya., arkhitekter.

[Sheep house for 300 head for treeless southern and central districts; adobe walls. Plan no.0304] Ovcharnia na 300 ovets dlia iuzhnykh i tsentral nykh bezlesnykh raienov; sheny samannye. Proekt no.0304. Moskva, 1955. 16 p., 11 plans. (MIRA 9:6)

1.Russia (1923- U.S.S.R.) Ministerstve goredskoge i sel'skege stroitel'stva.

(Sheep houses and equipment)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5"

ASHERSON, M. (Fergana); ALEKSEYEVA, M.; ZAMKOVSKIY, V., liteyshchik; BYKOVA, V. (Kiyev); ZUBKO, A.; DUKHNEYICH, B. (Vil'ryus)

On good people. Sov. profaciuzy 19 no.ll:19 Je '63.

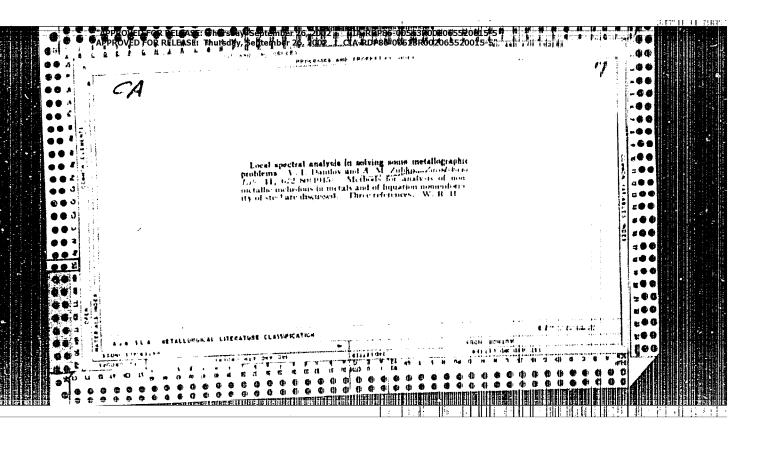
1. Literaturnyy sotrudnik mnogotirazhnoy gazety fabriki "Skorckhoi", Leningrad (for Alekseyeva). 2. Mekhanicheskiy savod "Santekhprom", Simferopol' (for Zamkovskiy). 3. Nachal'r': otdeleniya Gosudarstvennoy avtomobil'noy inspektsii Sovetskogo ra a, Kurbyshev (for Zubko).

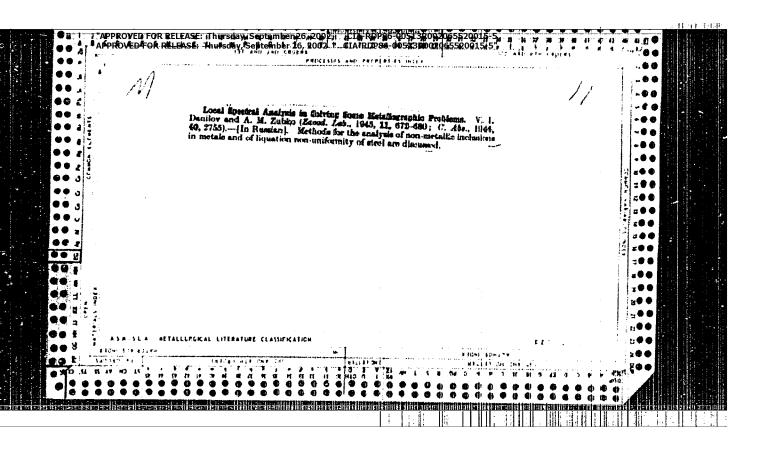
(Trade unions—Officers)

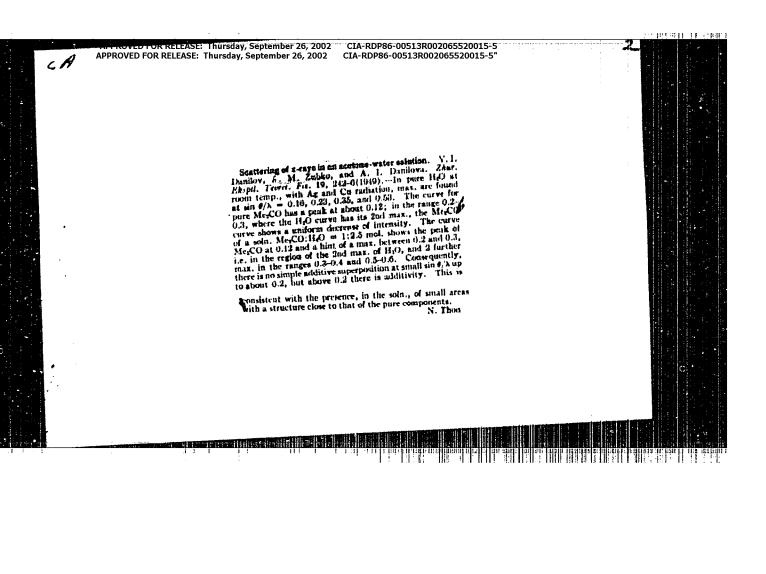
ZUEKO, ... inzhener.

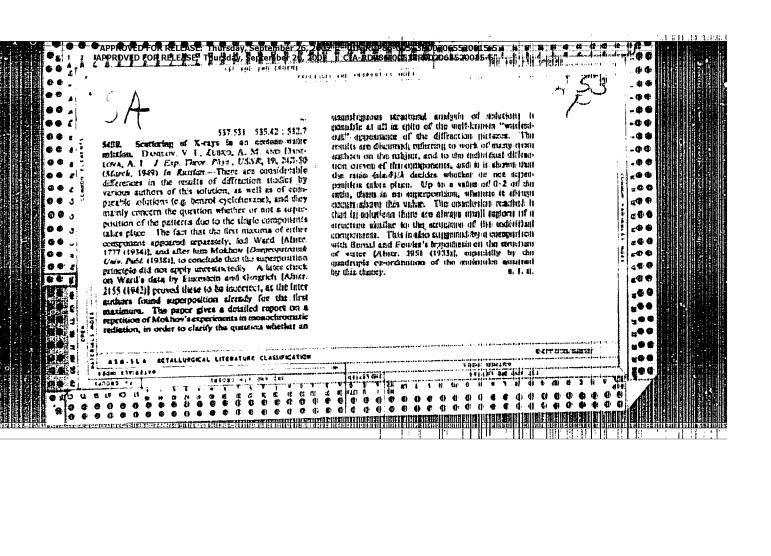
Installation of roller bearings in ZVN and ZVG roller mills. Nuk. - elev. prom. 23 no.6:23-24 Je 157. (KLEA 10:9)

1. Mel'nitsa No.1 v Zhana-Semey.
(Grain-milling machinery) (Bearings (Machinery))









"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5

ZUEEO, A.M., kand.fiz.-mat.nauk.

X-ray investigation of certain binary liquid syntams. Frobl.
metalloved.i fiz. ret. no.[1]:106-112 '49. (NIRA 11:4)

1. Laboratoriya kristallizatsii TSentral'nogo nauchno-isaladovatel'skogo instituta chernoy metallurgii.

(Systems (Chemistry))

(X rays--Diffraction)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKO, A. M.

USSR/Physics

Solutions

X-Rays - Scattering

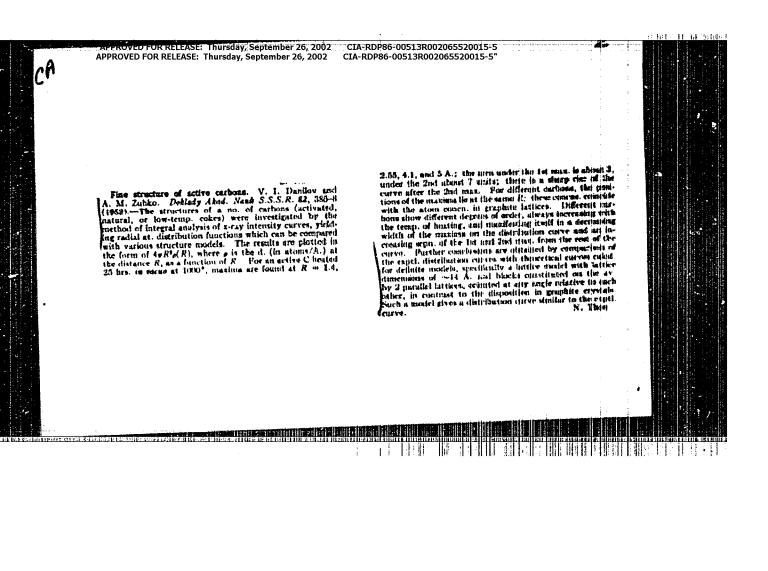
Mar 49

"X-Rey Scattering in a solution of Acetone and Water," V. I. Danilov, A. M. Zubko, A. I. Danilove, Inst of Metallophys, Cen Sci Res Inst of Ferrous Metals, 42 pp

"Zhur Eksper i Teoret Fiz" Vol XIX, No 3

Presents results of X-ray investigation of acetone-water solution. Submitted 23 Sep 48.

pa 32/49T100



•	DANILOV	"APPROVED FO	OR RELEASE: Thui	rsday, September 26, 200 day, September 26, 2002	CIA-RDP86-00513	R002065520015-5 R002065520015-5"			
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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKO, A.H.; SPEKTOR, Ye.Z.

X-ray analysis of the structural modifications in coke varieties used in blast furnaces. Dokl. AN SSSR 99 no.2:251-254 N '54.

(MIRA 8:2)

1. Institut metallovedeniya i fiziki metallov TsNIIChM.
Predstavleno akademikom G.V.Kurdyumovym.
(Coke) (X says--Industrial applications)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKO, A.M., kand.fiz.-mat.nauk; SPEKTOR, Ye.Z.

X-ray investigation of cokes and coals; coke structure in the blast furnace. Probl. matalloved. i fig. met. no.4:77-86 '55. (MIRA 11:4) (Coke) (X rays--Industrial applications)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5" CIA-RDP86-00513R002065520015-5"

DANILOV, Vitaliy Ivanovich, professor, doktor fiziko-matematicheskikh nauk, laureat Stalinskoy premii; KURDYUMOV, G.V., akademik, redaktor; DANILOVA, A.I., redaktor; ZURKO....A.M., redaktor; KAMHHHTSKAYA, D.S., redaktor; LASHKO, A.S., redaktor; OVSIYENKO, D.Ye., redaktor; SKRY-SHEVSKIY, A.F., redaktor; SPEKTOR, Ye.Z., redaktor; KAZANTSEV, B.A., redaktor izdatel*stva; RAKHLINA, N.P., tekhnicheskiy redaktor

[Structure and crystallization of liquids; selected articles]
Stroenie i kristallizatsiia zhidkosti; izbrannye statii, Pod red.
G.V.Kurdiumova. Kiev, Izd-vo Akademii nauk UKSSR, 1956. 566 p.
(MIRA 9:10)

1. Doystwitel'nyy chlen AN USSR (for Danilov)
(Liquids) (Crystallization)

AUTHORS:

Zubko, A. M. and Spektor, ic. Z.

20-114-6-28/54

TITLE:

Concerning the Problem of Graphitisetich of | bonaceous

Substances (K voprosu o grafitizato u larodiatykh

veshchestv)

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 114, Nr 6, pp. 1839-1241 (USSR)

ABSTRACT:

In coke samples which were burned at 1700 - 1800°C narrow lines situated at angles of 22°35' (intensive), 33° (weak) and 41°45' (intensive) according to Toldanian (intensive) and 41°45' (intensive) occur in radiograms. As is seen in table 1 and figure 1, the position of these lines neither agrees with the lines of the α -modification of graphite nor with those of β -graphite. The nearness of these lines to the position of the graphite-lines caused some research-men to consider them as belonging to a special graphite modification (references 1 - 5). Then the authors give additional data from own investigations of the graphitication of the substances mentioned in the title. It was interesting to determine the nature of the non-carbon-diffraction lines which become visible in coke after a temperature of 1700 -1800°C. Pure cane carbon alone and with small additions of iron oxide and silic dioxide were burned. The results

Card 1/2

Concerning the Problem of Graphitization of Carbonaceous 20-114-6-28/54

(figure 2) showed that the above-mentioned lines belong to a solid α -solution of Si in Fe. As the position of the diffraction lines of this solid solution is very close to that of graphite, they may become a source of error in conclusions on graphitization. There are 2 figures and 7 references, 4 of which are Slavic.

ASSOCIATION:

Institute for Metallography and Metal Physics of the Central Scientific Research Institute of Ferrous Metallurgy (Institut metallovedeniya i fiziki metallov Tsentral'nogo nauchno-issledovatel'skogo instituta chernoy metallurgii)

PRESENTED:

November 14, 1956, by G. V. Kurdyumov, Academician.

SUBMITTED:

November 5, 1956

Card 2/2

SCV/133-58-6-15/33 Bokshitskiy, Ya.M., Yemyashev, A.V., Zubko, A.M. and AUTHORS:

Filippycheva, M.M.

The Influence of Vacuum Melting on the Quality of Steel TITLE:

(vliyaniye vakuumnoy vyplavki na kachestvo stali)

PERIODICAL: Stal', 1958, Mr 6, pp 520 - 525 (USSR).

An investigation of the influence of wacuum melting on ABSTRACT: the quality of Kh27 and 18KhNVA steels is escribed. Vacuum melting was carried out in a 12 kg furnace previously described (Ref 5). The conditions of melting and heating of liquid metal, teeming temperature and the time of retention in the final vacuo were the same for all melts. As a charge, mild steel ingots smelted in the usual manner in a 30-kg highfrequency furnace were used. The pressures used were: 1 mm and 1/10 of a metre, 5-8 10-2 mm and 5 · 10-5 mm. The results of chemical gas analysis and impact strength of steel Kh27 smelted under normal pressure and in vacuo - Table 1. The impact strength of forged and herdened-in-water from 900 °C metal from all heats was low. In order to find factors determining the impact strength of Kh27 steel, a series of vacuo heats using electrolytic materials were carried out. The results obtained showed that apparently the main element Cardl/4 determining the impact strength is carbon. The influence of

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002

SOV/133-58-6-15/33

The Influence of Vacuum Melting on the Quality of Steel

the depth of vacuo on the composition of metal, the gas content and the content of admixtures in steel is shown in Tables 2 and 3 and Figure 1, respectively. The influence of lepth of vacuo on the mechanical properties of forged and thermally treated Kh27 steel - Table 4; the dependence of impact strength of the steel smelted in vacuo on the carbon content - Figure 2 and on the gas content - Figure 3. It is concluded that:

1) valcuum melting of Kh27 steel is accompanied by some changes in its chemical composition due to the evaporation of such elements as manganese and silicon and due to reactions forming gaseous products; 2) The change in chemical composition depends on the depth of vacuo; 3) Valcuum melting gives the following effects: a) the reaction between oxygen and carbon is more efficient; the content of carbon decreases to thousandths of parts of 1%; the reaction of sulphur with oxygen is also more intensive; b) the content of gas in the deoxidised metal decreases by a factor of 3; c) it has no influence on the structure of the metal. 4) On walcuum melting of steel Kh27 with its subsequent heat treatment, its impact strength can be considerably increased (30-60 times); the highest effect on the impact strength has the content of carbon; Card2/4

SOV/133-58-6-15/33 The Influence of Vacuum Melting on the Quality of Steel

when the latter is below 0.01%, the impact strength of steel reaches 15 - 18 kg/cm2; 5) On valcuum melting from electrolytic materials, the technological properties of steel Kh27 depend on the content of carbon and silicon. Steel 18KhNVA was made from a steel (C 0.19-0.20%) smelted from Sulinsk sponge iron. The experimental heats were carried out under normal pressure and a vacuo of 0.5 - 1 mm and The composition of steel %: C 0.14-0.21; Si 0.17-0.37; Mn 0.25-0.55; P, S © 0.055; W 0.80-1.20; Or 1.35-1.65; Ni 4.00-4.50%. The gas content of metal from experimental heats in cast (nominator) and forged (denominator) state - Table 5; the amount of non-metallic inclusions - Table 6; mean indices of mechanical properties of longitudinal specimens from the experimental heats - Table 7. It is concluded: 1) That vacuum melting of 18KhMVA steel decreases the content of nitrogen and oxygen in steel: a) heats made at a vacuo of 10^{-4} mm contained many times less nitrogen (0.0020 -0.0050%) than heats made under normal pressure (0.0080 -0.0109%); the influence of the depth of vacuo on nitrogen content was not detected; b) the content of oxygen in vacuo Card3/4

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SOV/153-58-6-15/33

The Influence of Vacuum Melting on the Quality of Steel

heats at a presoure of 10^{-2} mm was on average 5 times smaller (0.0010 - 0.0028%) than in metal from heats made under normal pressure (0.0051 - 0.0140%); further decrease of pressure to 10^{-3} - 10^{-4} mm lead to a further decrease in the oxygen content (up to 0.0003 - 0.0005%). 2) Metal from vacuo heats contained 5-10 times less of non-metallic inclusions (0.0012 - 0.0058%) than the usual heats from industrial ard furnaces (0.0168 - 0.0281%) and possessed higher values for relative elongation (approximately by 40%) and impact strength (by 7 kg/cm²). There are 3 figures, 7 tables and 5 references, 3 of which are Soviet, 1 French and 1 English.

ASSOCIATION: TSNIIChM

Card 4/4

1. Vacuum furnaces---Effectiveness 2. Steel---Production

3. Steel -- Mechanical properties

18.5100

75963 \$0V/133-59-10-24/39

AUTHORS:

Gurevich, Ya. B., Zubko, A. M.

TITLE:

Concerning the Coefficient of Friction and Specific

2 F R H 11 C

Pressure in Hot-Rolling Under Vacuum

PERIODICAL:

Stal', 1959, Nr 10, pp 929-931 (USSR)

ABSTRACT:

Initial tests concerned the determination of the coefficient of friction and resistance to deformation in hot-rolling under vacuum. The experimental part of the work was carried out by Rudenko, V. A., and Shashkova, V. N. The coefficient of friction was analytically determined by the value of the forward slip which was, in turn, established by means of center punch indentations. Total pressure (P) was divided by the surface of the contact of the metal with roll (F) to obtain the resistance to deformation; i.e., specific pressure during rolling (p): p = P/F. Research conducted by radiographic method (Zemskiy, S. V., of Central Scientific Research Institute of Ferrous Metallurgy

Card 1/3

(TSNIIChM)) on carbon distribution in iron and nickel

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

Concerning the Coefficient of Friction and Specific 75963 Pressure in Hot-Rolling Under Vacuum 4 50V/133-59-10-24/39

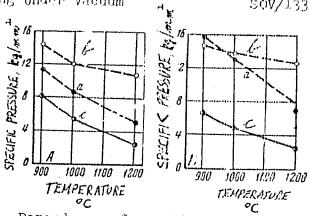


Fig. 3. Dependence of specific pressure in rolling under vacuum: (a) 10-2 mm Hg column and (b) 10-5 mm Hg column and in (c) regular rolling on temperatures: A. Iron; B, nickel.

Card 2/3

as well as sulfur in Kh27-type steel after 4-step heating at 1,150° C and regular rolling revealed an almost carbon-free surface of the nickel specimen.

<u>्र इ. . म. . १ र माला, १५ मा म. मिस अनुस्कृति कर माल्कर देव में १६ छन्ना</u>

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

Concerning the Coefficient of Fulction and Specific 75963 Pressure in Hot-Rolling Under Vacuum 50V/133-59-10-24/39

The carbon concentration gradually increased, reaching its initial value at 2 mm depth. After vacuum rolling the carbon content on the surface somewhat exceeded the initial content. Ostensibly, an increased concentration of carbon should reduce the coefficient of friction during rolling /Ref 37. However, the absence of scale has a greater effect than the slight increase in the quantity of carbon which promotes resistance to deformation during rolling. Although results are only preliminary they show that het-rolling under vacuum is accompanied by increased coefficient of friction and resistance to deformation. One of the causes is, evidently, the redistribution of some elements observed at high temperatures and during deformation under vacuum. There are 4 figures on a Coviet references.

ASSOCIATION:

Central Scientific Research Institute of Ferrous Metallurgy (Taniichm)

Card 3/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

ZUBKO, A.W., kand.fiz.mat.nauk; SPEKTOR, Ye.Z.

Method of quantitatively evaluating the graphitization of coke in blast furnaces. Problemetallored, i fizemet. no.6:372-377 (MIRA 12:8)

(Blast furnaces) (Coke)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

YEMYASHEV, A.V.; ZUBKO, A.M., band.fiz.mat.nauk; NETMARK, V.Ye., kand.fiz.mat.nauk;

Effect of vacuum smelting and pouring on proporties of the metal and quality of the ingot. Problemetalloved.i fixemet. no.6:169-186 '59. (MIRA 12:8)

(Vacuum metallurgy) (Steel ingots--Testing)

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от выстан из 1990

AUTHORS:

Pavlov, I.M., Sigalov, Yu.M., Shelest, A.Ye.,

Zubko, A.M. and Gurevich, Ya.B. (Moscow)

TITLE:

Investigation of the Process of Hot Rolling of

Aluminium in Vacuum and in Air

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1961, No.2, pp.64-67

TEXT: The influence on the friction coefficient of scale or an oxide film layer on the surface of a metal being rolled has been the subject of numerous papers. However, no direct comparison was made of the ordinary process of rolling aluminium in air and in Such a comparative study will permit direct elucidation of the influence of oxide films on the conditions of rolling. The authors investigated the power consumption, the speed and deformation conditions and the friction coefficient during hot rolling of aluminium in vacuum and in air. The rolling was on TsNIIChermet laboratory vacuum equipment permitting heating, rolling and cooling of 15 x 20 mm, 200 mm long specimens in a vacuum down to 10^{-5} mm Hg. From a forged and annealed blank 150 x 10 x 12 mm

Card 1/5

20254

Investigation of the Process...

S/180/61/000/002/002/012 E073/E535

specimens were cut. These were heated in a tubular electric furnace. The heating temperature was maintained within +15°C. Rolling was at 400°C with reductions of 20 to 70% per pass. diameter of the rolls was 85 mm, the rolling speed 6.5 m/min. rolls were of steel $\coprod X - 15$ (ShKh-15) (hardness 55 R_s) and had a polished surface. The pressure was measured by wire strain gauges, Fig.1 shows a typical oscillogram in which I is the torque on the top spindle, 2 and 5 - pressure measured by the strain gauges, 3 - recorded roll speed, 4 - recorded strip speed, 6 - torque on the lower spindle, 7 - oscillation curve (500 c.p.s.), Fig.2 shows the dependence of the broadening $\psi = B_2/B_1$, % on the relative reduction $\Delta B/\Delta h$, where H, B, and L, are respectively the height, width and length of the specimens before rolling and h, B_2 and L_2 are respectively the height, width and length after rolling, $\Delta B = B_2 - B_1$ and $\Delta h = H - h$. (Here and in the following plots the dashed line curve refers to results obtained in vacuum and the continuous line curve refers to results obtained in air). Fig.3 shows the lead S_h as a function of the broadening,

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whereby

$$S_{h} = \frac{L_{strip} - L_{roll}}{L_{roll}}$$
 (1)

where L_{strip} is the distance between the markings on the strip and L_{roll} is the distance between corresponding markings on the roll. Fig. 4 shows the dependence of the specific pressure P, kg/mm² the broadening ψ ,... Fig.5 shows the friction coefficient f' as a function of ψ ,... Fig.6 shows the torque M, kgm as a function of V,%. It was found that the friction coefficient and the required force, which depends directly on the friction coefficient, for vacuum hot rolling of titanium, grade BT-1 (Vr-1), is considerably lower than for rolling in air, whilst for nickel and iron (C - 0.01%) it is higher in the same way as it is for Al. This again confirms the dependence of these quantities on the chemical composition of the rolled metal. The following conclusions are 1. It was established that for Al the coefficient of friction

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ani componenti poni in la colori promiti il finanzi poda il i il la mali pri calculari i i promiti promiti i p

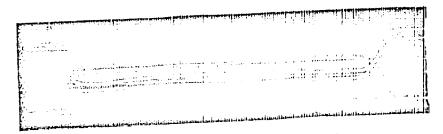
Investigation of the Process ...

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during rolling in vacuum is higher than for rolling in air, whereby the greatest difference (by a factor of about 1.4) was observed for smaller reductions;
2. it was confirmed that the friction coefficient during rolling decreases with increasing specific pressure both in air and in vacuum. There are 6 figures and 7 references: all Soviet.

SUBMITTED: August 8, 1960

Fig.1



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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RD98-00513R002065520015-5"

GUREVICH, Ya. B. (Moskva); ZUBKO, A.M. (Moskva); PAVLOV, I.M. (Moskva); (SIGALOV, Yu.M. (Moskva); Refrect of the state of specimen surfaces on the coefficient of friction and other parameters during the rollings of iron in vacuum. Izv. AN SSSR. Otd. tekh. nauk. Met. 1 topl. nc.2:144-145 Mr-Ap *161. (Rolling(Metalwork))

(Friction)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5"

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s/148/61/000/006/006/013 E073/E535

AUTHORS:

Pavlov, I.M., Sigalov, Yu. M., Shelest, A.Ye.,

Zubko, A.M. and Gurevich, Ya. B.

TITLE:

Investigation of some conditions of hot rolling of

titanium in vacuum and in air

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PERIODICAL: Izvestiya vysshikh uchebnykh zavedenily, Chernaya

metallurgiya, 1961#No.6, pp.106-110

TEXT: The authors investigated the force, velocity and deformation conditions during the process of rolling of titanium in vacuum and compared the results with similar results obtained for rolling in air. This was done to elucidate the influence of the scale on the friction coefficient, specific pressure and other parameters of the rolling of commercially pure titanium. From a pre-forged blank, specimens 15 x 20 mm, 200 mm long were cut. Those specimens which were to be rolled in vacuum $(3 \times 10^{-5} \text{ mm Hg})$ were heated in a small-chamber electric furnace with molybdenum heater filaments; those to be rolled in air were heated in an electric furnace with nichrome heater filaments. The specimens were rolled in the temperature range 800-1200°C on a two-high mill Card 1/6



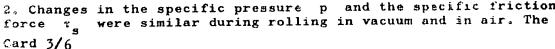
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Investigation of some conditions of ... S/148/61/000/006/006/013
E073/E535

with rolls of 85 mm diameter. The average reduction was 20%, the speed of rolling was 6.5 m/min. The rolls had a ground surface with a hardness of 55 RC. The rolling parameters, i.e. the total pressure, the torque, the speed of the rolled strip and the circumferential speed of the rolls were recorded by means of an 8-loop oscillograph. Fig. 3 shows the dependence of the friction coefficient $f^{(n)}$ and of the specific friction force t_g , kg/mm² on the rolling temperature, °C. Fig. 4 shows the dependence of the friction coefficient f' and of the forward slip S, on the rolling temperature, °C. Fig. 5 shows the dependence of the specific pressure, kg/mm², on the rolling temperature, °C. Fig. 6 gives the dependence of the specific pressure, kg/mm, and the friction coefficient f' on the reduction, %. In all these graphs the continuous line curves apply to rolling in air and the dashed line curves to rolling in vacuum. In the paper the authors apply three differing friction coefficients, one fit determined according to the formula of S. I. Gubkin (Ref. 121 Theory of shaping metals by pressure, Metallurgizdat, 1947), another f' determined on the basis of the theoretical formula for the torque, proposed by Card 2/6

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Investigation of some conditions ...5/148/61/000/006/006/013 E073/E535

V. Bayukov and the third, fi, determined from the value of the forward slip. The following conclusions are arrived at: 1. In all cases of rolling in air the curve expressing the dependence of the friction coefficient on the temperature has a convex-shaped section with a maximum in the temperature range 1050-1150°C. If titanium is rolled in air at 800-1100°C, a dense layer of titanium dioxide scale forms which leads to an increase in sliding friction coefficient and spreading. At rolling temperatures above 1100°C, a dense layer of scale of a fine grain structure forms which peels off easily from the base metal and leads to a reduction of the friction coefficient; the friction coefficients f1 and f1 are similar and their values are very near to each other. When rolling was performed in vacuum, the friction coefficient was considerably lower and showed a tendency to increase with increasing rolling temperature. This is attributed to a drop in the specific pressure with a minimum effect of other factors. 2. Changes in the specific pressure p and the specific friction



કરના કુરતા માટે કરાવા કે મહારા માને મામ કુરતા માતા માટે મોલા કરો કુરતા કરો કુરતા છે. મામ કરો મામ કરો માટે કે મ મામ કુરતા માટે કરાવા કે મામ કુરતા મામ કુરતા માતા માટે મામ કરો કુરતા કરો કુરતા કુરતા કરો મામ કે મોલા કરતા માતા ક



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Investigation of some conditions 3.3 S/148/61/000/006/006/013E073/E535

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values p and τ_{\perp} , and consequently also the torque, are affected by the sudden a to β transformations and this explains the sharp drop in the friction coefficient, forward slip and the slight increase in spreading in the temperature range 850-950°C. 3. With increasing reduction an increase is observed in the specific pressure and a decrease in the friction coefficient. 4. The experiments revealed considerable qualitative and quantitative differences in the force, velocity and geometrical factors pertaining to rolling titanium in vacuum and in air. Experiments carried out earlier by some of the authors (Ref. 14: Stal', 1959, No.10, 929-931) yielded differing results, namely, the coefficient of friction and the geometrical and force conditions depending on it were considerably higher in vacuum than in air in the case of rolling pure iron with a carbon content of 0.01%. This clearly indicates that the investigated quantities depend on the chemical composition of the rolled metal.

ASSOCIATION: Institut metallurgii imeni A.A. Baykova (Institute of Metallurgy imeni A. A. Baykov)

are 6 figures and 14 references: 13 Soviet and 1 non-Soviet.

Card 4/6

5/137/62/000/003/018/191 A006/A101

Yemyashev, A. V., Zubko, A. M., Neymark, V. Ye. AUTHORS:

On the problem of the effect of vacuum melting and teeming upon the TITLE:

metal properties and the ingot quality

Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 41, abstract 3V258 PERIODICAL:

("Sb. tr. In-t metalloved, i fiz. metallov Tsentr, n.-i. in-ta

chernoy metallurgii", 1959, v. 6, 169-136)

At a TsNIICherMET pilot plant magnetically soft Fe-Co alloy 85042 (K50F2) was melted in a high-frequency vacuum furnace; the alloy contains in \$4: > 0.05 C; > 0.2 Si; > 0.2 Mn, 49 - 51 Co; 1.5 - 2 V; > 0.5 Ni, > 0.025 S and P, the rest Fe. In the furnace space in cold state a vacuum was produced of the order of $1 \cdot 10^{-3}$ mm Hg. The heats were produced in $2 \cdot 10^{-2}$ or unitable which TEXT: were manufactured directly on the furnace. One crucible withstands > 40 heats. The melted ingots weigh 30 - 45 kg. In the vacuum-melted metal, the content of gas, non-metallic impurities and magnetic properties were determined. It was established that the melting of K50F2 alloy in a vacuum of 500 - 50 mm Hg was not accompanied by changes in the chemical composition of the alley, except Si, whose

Card 1/2

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amount decreased by 50%. The content of gases in the metal varies from 10 to 20 ml/100 g, instead of 60 ml/100 g contained in metal that was melted by conventional technology. The amount of non-metallic impurities in the alloy decreased substantially, and its magnetic properties are improved. Studies of the effect of vacuum melting and teeming of low-carbon nickel steel, containing 0.1 - 0.15% C and 2 - 3% Ni, on the formation of bubbles in the ingot, have shown that gas bubbles are formed during the teeming into vacuum molds of steel that had been subjected to short-time vacuum treatment in the ladle at 30 - 40 mm added should be carried out in inert atmosphere.

G. Lyubimova

[Abstracter's note: Complete translation]

Card 2/2

\$/509/62/000/009/006/014 D207/D308

Pavlov, I. M., Sigalov, Yu. M., Gurevich, Ya. B. and AUTHORS:

Zubko, A. M.

Conditions during hot rolling in vacuum of various TITLE:

pressures, in argon and in air

Akademiya nauk SSSR. Institut metallurgii. Trudy, no. 9, SOURCE:

Moscow, 1962. Voprosy plasticheskoy deformatsii metalla,

105-108

Card 1/2

TEXT: The present work is a continuation of an earlier investigation by Ya. B. Gurevich and A. M. Zubko. The present authors studied the effect of vacuum (10-1 - 10-5 mm Hg), of pure argon and of air on the coefficient of friction, and on geometrical and force parameters of rolling. The materials subjected to rolling were pure iron and nickel. The rolling tests were carried out at 11000C at the rate of 6.5 m/min which produced 30% deformation. The rolling mill was of the construction developed at the KhFTI AN USSR (Khar!kov Physico-Technical Institute, AS UkrSSR) which had 85 mm dia"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R00200520015-5" CIA-RDP86-00513R002005520015-5"

Conditions during hot ...

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meter rolls made of UX15(ShKh15) steel. Vacuum was measured with a BMT-1(VIT-1) gauge. Samples were 150 mm long and 10 x 12 mm in cross-section. The coefficient of friction and the resistance to deformation rose in vacuum on decrease of pressure; in argon the coefficient of friction was the same as an 10-1 - 10-3 mm Hg vacuum. In air the coefficient of friction was the lowest. There

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s/509/62/000/009/007/014 D207/D308

Pavlov, I. M., Sigalov, Yu. M., Gurevich, Ya. B. and AUTHORS:

Zubko, A. M.

On the temperature dependence of some hot-rolling para-TITLE:

meters in vacuum and in air

Akademiya nauk SSSR. Institut metallurgii. Trudy, no. 9, Moscow, 1962. Voprosy plasticheskoy deformatsii metalla, SOURCE:

109-114

TEXT: The present work is a continuation of an investigation by the authors reported in the preceding paper (pp. 105 - 108 in the present issue). Rolling tests were carried out on pure iron (0.01% C) and nickel at temperatures of 800 - 1200°C using a LHUNYM (TSNIIChM) rolling mill under the conditions described in the preceding paper. Temperature was measured with a thermocouple and an CMP (SPR) potentiometer. The coefficient of friction of both iron and nickel was lower in air than in 10-5 mm Hg vacuum. In air and in vacuum the temperature dependence of the coefficient of friction

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On the temperature ...

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of iron had a maximum at 900°C, but in vacuum the friction passed also through a minimum at 1000°C and then rose with temperature. In the case of nickel the coefficient of friction fell with increase of temperature in vacuum, but in air there was a maximum at 900°C. The resistance of deformation and other rolling parameters varied with the atmosphere and temperature roughly in the same way as did the coefficient of friction. There are 6 figures.

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YEMMASHEV, A.V., kand.tekhn.nauk; ZUBKO, A.M., kand.fiz.ko-matemeticheskikh nauk

Effect of vacuum smelting on the composition and proporties of metals and alloys. Probl.metalloved.i fis.met. no.7:450-471 162.

(Vacuum metallurgy)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520015-5 CIA-RDP86-00513R002065520015-5"

PAVLOV, I.M.; SIGALOV, Yu.M.; GUREVICH, Ya.B.; ZUBKO, A.M.

Hot rolling conditions in vacuum of varying degrees in argon and in air. Trudy Inst.met. no.9:105-108 (E. (MIRA 16:5) (Rolling metalwork))

APPROVED FOR RELEASE: Thursday, September 26, 2002 CLA-RDP86-00513R002065520015-5
PAVLOV, I.M.; SIGALOV, Yu.M.; GUREVICH, Ya.B.; ZUEKO, A.M.

Temperature relationship between certain parameters of hot rolling in a vacuum and in air. Trudy Instanct. no.9:109-114 '62.

(Rolling (Metalwork))

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